## Iowa Department of Natural Resources Wastewater Section

## Construction Permit Application SCHEDULE E, Wastewater Pump Station

DATE PREPARED			PROJECT IDENTITY							DNR USE		
									PRC	JECT NO.		
DATE REVISED									DED	) (ITT ) (O		
									PER	MIT NO.		
1.			Design Basis				Initial	Desig	Design Year ( )			
			Residential Area, Acres									
			Population, Persons									
			PHDW Flow, MGD									
			Industrial Area, Acres									
			PHDW Flow, MGD									
			Other , Acres PHDW Flow, MGD									
			Peak Hourly Infiltration, MGD									
			Peak Hourly Inflow, MGD									
			Total PHDW Flow, MGD									
			Total PHWW Flow, MGD									
2. Provide pump information												
	Pump			Opening		Capacity	TDH	(ft.)	Operat	ing Level		
	No.	,	Туре	(in)	HP	GPM	Computed	Rated	On	Off		
	1											
	2											
	3											
	4											
	5					1						
	Sump	ne enocifi	iod as boing o	anable of nee	sing thro	 	tor enhance? V	os D No				
	Are pumps specified as being capable of passing three-inch diameter spheres? Yes No Can remaining pumps handle PHWW flow with largest pump out of service? Yes No											
3.	Wet-well effective volume gallons. Maximum retention time: Initial flow minutes.											
Design flow minu												
4.	Is forced	forced air ventilation provided?										
	Continuous: wet-well dry-well Intermittent: wet-well dry-well											
		dry-well air changes/hour dry-well air changes/hour										
Are spark-proof materials specified? Yes No												
5.	Force main: Is profile of force main provided? Yes No											
	Size in. Length ft. Detention time at ADW design flow hours.  Pipe material Joint											
	Minimun	n cover	ft	Minimum v	elocity	JOI						
	Pipe material Joint  Minimum cover ft. Minimum velocity fps  Number of high points Are air relief valves provided? Yes No											
	Number of thrust blocks provided?  At an rener varves provided: Tes No  At location(s)											
		Is pressure test specified? Yes No Does installation conform to AWWA C600? Yes No Does installation conform to AWWA C600?										
	TC	.1.1.										
6.	Are valves provided on the suction & discharge lines? Yes No											
_	Type: Discharge Suction  Is an alarm system provided? Yes No Type											
7.												
0	Indicate where audio/visual warning signals will be located											
o. 0	Are the n	Method of pump control  Are the pumps protected from clogging? Yes No										
2.	Method of	of cleanin										
	Method of cleaning  Method of pump removal  Are lifting hook/arms provided?											
10.	Are permanent emergency piping bypass connections provided?											
	Is an emergency power supply available?											
	Describe station operation in an emergency (equipment, piping, bypass, etc.)											
11.	Is the wa	stewater	pump station	located in a	floodplai	n? Yes 🗌	No 🗌					
	Elevation	100 y	ear flood (MS	SL)		Eleva	ation of 25 year	flood (MSL	L)			

DNR form 28E (Nov 00) 542-3098